

THE INVENTION CLAIMED IS:

1. A method for manufacturing a flat panel display comprising:
 - providing a baseplate and a faceplate;
 - desorption processing the faceplate in a vacuum;
 - merging the baseplate and the faceplate; and
 - sealing the vacuum between the baseplate and the faceplate.
- 5 2. The method as claimed in claim 1 wherein the desorption processing uses a vacuum from 10^{-7} to 10^{-8} torr.
- 10 3. The method as claimed in claim 2 wherein the desorption processing includes scrubbing the faceplate before sealing the vacuum between the baseplate and the faceplate.
4. The method as claimed in claim 3 wherein the scrubbing the faceplate uses plasma sputtering.
- 15 5. The method as claimed in claim 4 wherein the plasma sputtering uses a low atomic weight gas.
6. The method as claimed in claim 4 wherein the plasma sputtering uses ions and a faceplate voltage of -10 to -1000 mV.
- 15 7. The method as claimed in claim 4 wherein the plasma sputtering uses electrons and a faceplate voltage of +10 to +1000 mV.
- 20 8. The method as claimed in claim 4 wherein the plasma sputtering applies a faceplate voltage for about 1 to 60 minutes.
9. The method as claimed in claim 1 wherein the desorption processing includes pre-aging the faceplate.
10. The method as claimed in claim 9 wherein the pre-aging the faceplate is performed from 120 to 300 minutes.
- 25 11. The method as claimed in claim 10 wherein the desorption processing includes pre-aging before merge of the baseplate and the faceplate.
12. The method as claimed in claim 11 wherein the pre-aging uses irradiation with electrons from an electron gun.
- 30 13. The method as claimed in claim 12 wherein the pre-aging uses irradiation with electrons having a current density of 5 to 10 times higher than that of the faceplate during normal operation.

14. The method as claimed in claim 10 wherein the desorption processing includes pre-aging after merge of the baseplate and the faceplate.

15. The method as claimed in claim 14 wherein the pre-aging includes application of a voltage of 6 to 9 kV between the baseplate and the faceplate.

5 16. A method for manufacturing a flat panel display comprising:
 providing a baseplate and a faceplate;
 desorption processing the faceplate by scrubbing with plasma sputtering in a
 vacuum;

10 merging the baseplate and the faceplate in the vacuum after the plasma
 sputtering; and

 sealing the vacuum between the baseplate and the faceplate.

15 17. A method for manufacturing a flat panel display comprising:
 providing a baseplate and a faceplate;
 desorption processing the faceplate by scrubbing with ion plasma sputtering in
 a vacuum;

merging the baseplate and the faceplate in the vacuum after the ion plasma
 sputtering; and

 sealing the vacuum between the baseplate and the faceplate.

20 18. A method for manufacturing a flat panel display comprising:
 providing a baseplate and a faceplate;
 desorption processing the faceplate by scrubbing with electron plasma
 sputtering in a vacuum;

merging the baseplate and the faceplate in the vacuum after the electron
 plasma sputtering; and

 sealing the vacuum between the baseplate and the faceplate.

25 19. A method for manufacturing a flat panel display comprising:
 providing a baseplate and a faceplate;
 desorption processing the faceplate by pre-aging using electron irradiation in a
 vacuum;

merging the baseplate and the faceplate in the vacuum after the electron
 irradiation; and

 sealing the vacuum between the baseplate and the faceplate.

30 20. A method for manufacturing a flat panel display comprising:

providing a baseplate and a faceplate;
merging the baseplate and the faceplate;
evacuating between the baseplate and the faceplate;
desorption processing the faceplate by pre-aging using electron irradiation
during the evacuating between the baseplate and the faceplate to form
a vacuum therebetween; and
sealing the vacuum between the baseplate and the faceplate after the pre-
aging.